

Submersible Rewindable Motor

6" WF Super Stainless Steel

Quality for your borewell :

These motors are cost effective, rewindable, stainless steel water filled submersible motors which are designed and sized for installation in 6" diameter or larger water wells.

Product Features :

- 6" Water filled stainless steel submersible motor.
- Easily rewindable (wet wound) induction motor with PE insulated windings.
- Completely stainless steel AISI 304 construction.
- Water lubricated radial and axial thrust bearings.
- Counter thrust bearing.
- Motors are pre-filled with clean water + Glycol mixture.
- Shaft extension made of stainless steel AISI 316.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- 6" NEMA coupling flange.
- Pressure compensation diaphragm.

Specifications :

- Ratings: Three phase - 4 to 18.5 kW, 50 Hz
4 to 22 kW, 60 Hz
- Supply voltages (Tolerance +10% / -15%):
50 Hz, 3 phase, 380 V, 400 V, 415 V
60 Hz, 3 phase, 230 V, 380 V, 460 V
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Three phase - CCW and CW
- Maximum nos. of starts/hour: 20
- Water pH: 6.5 - 8
- Minimum cooling flow along the motor:
4 to 15 kW - 15 cm/sec
18.5 to 22 kW - 30 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x I_n
- Maximum submerged depth: 250 metres
- Mounting: vertical / horizontal.

On Request :

- Mechanical shaft seal Sic/Sic.
- Built in PT 100 temperature sensor.
- Special voltages.
- Double cable for Star - Delta operation.

Cable Data :

HP	Type of start	Cable x Leads x Size (mm ²)	Length [m]	H x B [mm]	
5.5 to 30.0	DOL	1 x 3 x 6	3.5	7.9 x 18.7	



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Motors that are top class in Performance & Reliability

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Cable

Cable safe for drinking water.

Earth cable

Outside earth cable provided.

Sensor

Temperature protection by means of PT 100 sensor (Optional).

Windings

Rewindable motor construction allows for low – cost motor repair that can be done locally.

Efficiency

High efficiency provides energy saving.

Thrust

The thrust bearing is larger than the competition and is rated to take much more thrust load than what would be subjected by the pump.

Shaft Extension

Stainless steel splined shaft extension to NEMA

Shaft seal

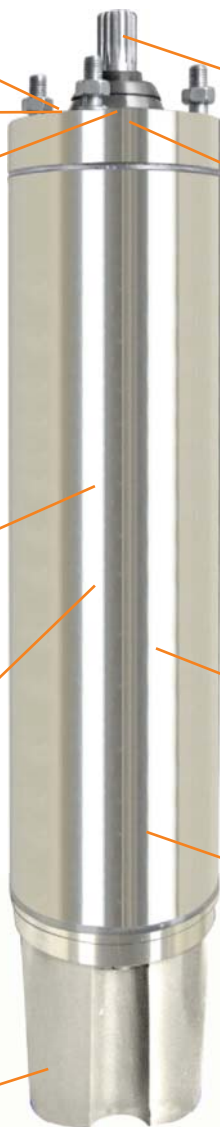
Lip seal is standard. Available with mech. shaft seal in sic / sic for sandy bore well

Easy Maintenance

Designed for easy disassembly & repair

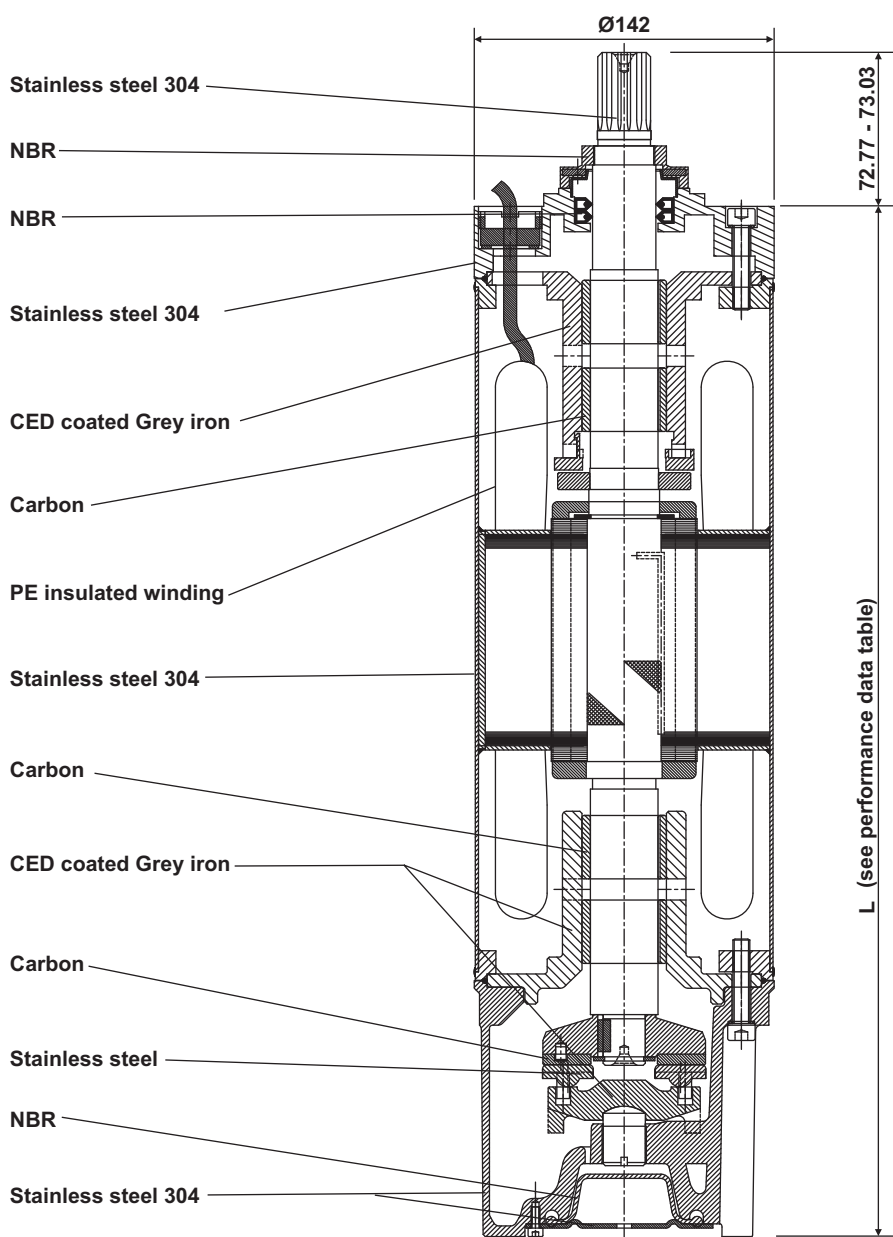
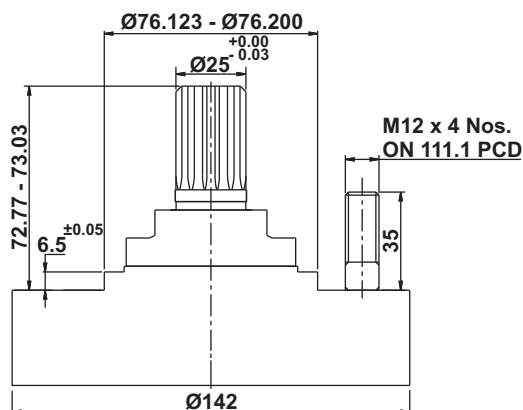
Contamination

Water filled motor design prevents water contamination.



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Shaft :

Spline shaft: 15 teeth, 16/32 pitch, module 1.5875, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 6".

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6" Submersible Rewindable Motor Performance Data 50 Hz

Performance data

Motor type	Pn		Ka [N]	Un [V]	In [A]	Ist/In	n [min ⁻¹]	η [%]			COS ϕ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m ³]
	kW	HP						50%	75%	100%	50%	75%	100%				
L6505-SS	4.00	5.50	15500	380	10.1	4.12	2890	69.3	73.0	75.5	0.61	0.71	0.80	13.22	545	38.3	0.0250
				400	9.50	4.02	2910	70.8	74.3	76.0	0.60	0.72	0.80	13.13			
				415	9.50	4.12	2910	71.3	74.6	76.0	0.58	0.69	0.77	13.13			
L6507-SS	5.50	7.50	15500	380	13.6	4.12	2855	71.0	75.0	76.5	0.63	0.75	0.82	18.40	575	42.1	0.0250
				400	12.8	4.02	2870	72.8	76.3	77.5	0.61	0.73	0.81	18.31			
				415	12.7	4.12	2885	73.0	76.5	78.0	0.60	0.72	0.80	18.22			
L6510-SS	7.50	10.00	15500	380	18.0	5.20	2860	72.8	76.0	77.5	0.64	0.75	0.82	25.05	625	47.5	0.0250
				400	17.1	5.02	2870	74.0	77.3	78.5	0.62	0.74	0.81	24.97			
				415	16.6	4.94	2880	74.8	77.8	79.0	0.60	0.71	0.80	24.88			
L6512-SS	9.30	12.50	15500	380	21.7	5.22	2845	74.0	77.8	79.5	0.65	0.75	0.82	31.23	665	52.0	0.0250
				400	20.8	5.12	2860	76.3	79.3	80.5	0.62	0.74	0.80	31.07			
				415	20.4	5.02	2875	76.5	79.5	80.7	0.60	0.72	0.79	30.90			
L6515-SS	11.00	15.00	15500	380	25.1	5.24	2850	75.3	78.3	80.2	0.65	0.75	0.83	36.87	713	56.0	0.0250
				400	24.0	5.12	2870	76.8	80.3	81.5	0.62	0.74	0.82	36.62			
				415	23.8	5.30	2880	77.2	80.6	81.8	0.60	0.72	0.80	36.50			
L6517-SS	13.00	17.50	15500	380	29.5	5.00	2860	75.8	78.8	80.5	0.64	0.76	0.83	43.43	743	60.3	0.0310
				400	28.5	5.10	2880	77.3	80.3	81.5	0.61	0.75	0.81	43.12			
				415	28.4	5.20	2880	77.8	80.8	82.0	0.59	0.72	0.78	43.12			
L6520-SS	15.00	20.00	15500	380	33.2	5.20	2860	76.8	80.0	81.8	0.65	0.77	0.84	50.11	813	68.2	0.0310
				400	31.6	5.10	2880	78.3	81.3	82.5	0.64	0.76	0.83	49.76			
				415	31.5	5.28	2880	78.8	81.8	83.0	0.60	0.73	0.80	49.76			
L6525-SS	18.50	25.00	15500	380	40.9	5.12	2860	77.3	80.3	81.9	0.66	0.78	0.84	61.80	873	74.2	0.0310
				400	39.4	5.20	2880	78.4	81.4	82.5	0.64	0.77	0.82	61.37			
				415	39.5	5.25	2880	78.8	81.8	83.1	0.61	0.73	0.80	61.37			

Pn: Rated output

Ka: Thrust load

Un: Rated voltage

In: Rated current

Ist/In: Locked rotor current/Rated amperage

n: Rated speed

η : Efficiency

cos ϕ : Power factor

Tn: Rated torque

L: Motor length

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6" Submersible Rewindable Motor Performance Data 60 Hz

Performance data

Motor type	Pn		Ka [N]	Un [V]	In [A]	Ist/In	n [min ⁻¹]	η [%]			COS ϕ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m ³]
	kW	HP						50%	75%	100%	50%	75%	100%				
L6605-SS	4.00	5.50	15500	230	19.2	5.31	3460	68.9	74.9	76.0	0.61	0.72	0.79	11.04	530	36.7	0.0250
				380	11.3	4.57	3460	70.4	75.9	77.0	0.63	0.73	0.80	11.04			
				460	9.5	4.64	3480	69.4	75.9	77.0	0.63	0.72	0.79	10.98			
L6607-SS	5.50	7.50	15500	230	26.8	5.30	3460	73.9	76.9	78.0	0.61	0.73	0.81	15.19	545	38.3	0.0250
				380	15.3	4.90	3460	74.9	78.4	79.0	0.61	0.74	0.81	15.19			
				460	12.8	4.72	3480	73.9	76.9	78.0	0.62	0.74	0.80	15.10			
L6610-SS	7.50	10.00	15500	230	33.4	5.41	3460	74.9	77.9	79.0	0.61	0.74	0.82	20.71	575	42.1	0.0250
				380	20.0	5.31	3460	75.4	79.4	80.0	0.62	0.75	0.82	20.71			
				460	16.9	5.07	3480	73.9	77.9	79.0	0.63	0.75	0.81	20.59			
L6612-SS	9.30	12.50	15500	230	42.8	5.55	3460	74.9	77.9	79.0	0.62	0.74	0.82	25.68	625	47.5	0.0250
				380	24.5	4.90	3460	76.4	79.4	80.0	0.65	0.76	0.83	25.68			
				460	20.7	4.89	3480	75.9	78.9	80.0	0.64	0.75	0.81	25.53			
L6615-SS	11.00	15.00	15500	230	47.6	5.61	3460	74.9	78.9	80.0	0.63	0.75	0.83	30.38	665	52.0	0.0250
				380	28.9	5.26	3460	76.4	79.4	80.0	0.66	0.76	0.83	30.38			
				460	23.9	5.27	3480	76.4	79.9	81.0	0.65	0.76	0.82	30.20			
L6617-SS	13.00	17.50	15500	230	56.8	5.65	3460	75.4	78.9	80.0	0.63	0.74	0.83	35.90	713	56.0	0.0250
				380	33.8	5.36	3460	77.4	80.4	81.0	0.66	0.76	0.83	35.90			
				460	28.3	5.36	3480	76.9	79.9	81.0	0.65	0.76	0.82	35.70			
L6620-SS	15.00	20.00	15500	230	62.9	5.65	3460	75.9	80.9	82.0	0.64	0.75	0.84	41.42	743	60.3	0.0310
				380	38.1	5.37	3460	77.4	81.4	82.0	0.66	0.77	0.84	41.42			
				460	32.2	5.38	3480	76.9	80.9	82.0	0.66	0.76	0.82	41.18			
L6625-SS	18.50	25.00	15500	230	79.8	5.66	3460	76.9	81.9	83.0	0.65	0.76	0.83	51.08	813	68.2	0.0310
				380	45.8	5.70	3460	78.4	82.9	84.0	0.68	0.78	0.84	51.08			
				460	38.3	5.69	3480	77.9	82.9	84.0	0.66	0.77	0.83	50.80			
L6630-SS	22.00	30.00	15500	230	91.8	5.61	3460	77.9	80.9	83.8	0.66	0.77	0.84	60.75	873	74.2	0.0310
				380	52.9	6.24	3460	78.9	83.4	84.5	0.69	0.78	0.86	60.75			

Pn: Rated output
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 Tn: Rated torque
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NOTE